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US GAAP Conversion To IFRS: A Case Study Of The Balance Sheet

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ABSTRACT

International Reporting Standards (IFRS) has become the required framework for most of the world financial market economies. In the United States, US Generally Accepted Accounting Principles (GAAP) is still required. However, plans are presently in place by the SEC to abandon US GAAP and to adhere to IFRS requirements by as early as the period ending December 31, 2014. This case study requires the student to transform a US GAAP presented Balance Sheet to IFRS and is most suitable for an Intermediary Accounting 11 and a Financial Analysis class at the graduate level.

Keywords: US GAAP; IFRS; LIFO; Fair Market Value Accounting; Asset Impairment; Asset Revaluation; Balance Sheet

INTRODUCTION

FRS International Reporting Standards (IFRS) has presently been adapted by most countries that have a stock exchange. In the United States, however, companies report on several different principles-based methods, including but not limited to US GAAP and IFRS, which makes comparability, understandability and the presentation of financial data very difficult.

Much of the current financial crisis has been blamed on the inability to understand financial reporting and the ability to somehow circumvent rules due to the difficult and inconsistent accounting financial statement requirements.

The solution proposed by the SEC and other worldwide agencies is to have a single conforming set of accounting principles which every publically traded company in the world would adhere to in presenting financial information. The solution has been the adaption of IFRS and this action has been implemented by most countries worldwide, such as Europe, Canada, and Australia. This trend has also transformed to the education scene as professional examinations, such as the CPA and CFA exams, have materially incorporated IFRS into their curriculum.

The US is in the transformation stage and it is expected that IFRS will be in place by as early as 2014. As such, it is important to introduce IFRS accounting rules in the college curriculum and make it a major component of accounting classes. This case study takes a US GAAP-prepared Balance Sheet and, based on the facts of the case, requires students to prepare an IFRS-based Balance Sheet. It is important for the student to refer to our paper entitled "US GAAP Conversion to IFRS: A Case Study Of The Income Statement" (*Journal of Business Case Studies*, July/August 2012; Volume 8, Number 4) in doing this assignment to obtain a comprehensive understanding of IFRS rules. This case expands on the Income Statement and focuses on the Balance Sheet. The need to understand both US GAAP and IFRS rules is required to adequately address this case study.

BACKGROUND

AXE Corp, a publically-traded NYSE company (symbol AXEC), is a manufacturer of electrical light bulbs. Its main headquarters is based in Denver, Colorado, and the company has been operating since 1976. The company sells light bulbs to the retail market on a worldwide basis.

Their Balance Sheet and Income Statement for the Year Ending December 31, 2011 have been prepared using US GAAP. The controller would like to begin to see the effects of using IFRS on the Balance Sheet and has been assigned this task. The company would like to adapt IFRS by as early as next year as it is considering a new stock issue in the London Stock Exchange, which requires IFRS compliance.

Balance Sheet (in 000's) As of 12/31/2011 ASSETS LIABILITIES AND SHAREHOLDERS' EQUITY **Current Assets Current Liabilities** Cash 33,000 Accounts payable 20,000 Accrued Expenses Accounts Receivable 25,000 15,000 Investments(AFS) 10,000 Taxes payable 5,000 Inventory (LIFO) 50,000 Total Current Liabilities 40,000 **Total Current Assets** 118,000 **Noncurrent Liabilities Property, Plant and Equipment** Assets (cost) 100.000 Bonds payable 50,000 Total Liabilities Less: 90,000 Accumulated Depreciation (30,000)70,000 Shareholders' Equity **Intangible Assets** Common Stock (\$1 par) 50,000 Retained Earnings Trademark 5,000 60,000 Goodwill 7,000 12,000 110,000 Total Assets 200,000 Total Liabilities and 200,000 Shareholders' Equity

FINANCIAL STATEMENTS

Income Statement (In 000's) 1/1/2011-12/31/2011

INCOME FROM CONTINUING OPERATIONS	
Sales	250,000
Cost of Goods Sold	175,000
Gross profit	75,000
Selling and Administrative Expenses	<u>31,000</u>
(exclusive of Amortization and Depreciation)	
Earnings before Interest, Taxes, Depreciation and Amortization	45,000
Amortization and Depreciation Expense	10,000
Earnings before Interest and Taxes	34,000
Interest Expense	4,000
Income before tax	30,000
Tax Expense (30 %)	9,000
Earnings from continuing operations and before	
Extraordinary Item	21,000
EXTRAORDINARY ITEM	
Net loss from Hurricane (net of 4,500 taxes)	(10,500)
Net Income	<u>10,500</u>
104	

134

ADDITIONAL INFORMATION

- 1. AXE Corp. uses the LIFO method to account for its inventory. The LIFO reserve was \$15,000 at the beginning of the year and \$20,000 as of year-end.
- 2. Management has established that the fair market value of Property, Plant and Equipment as of 1/1/2011 is \$85,000, resulting in a \$5,000 increase above Book Value.
- 3. Upon review , management has established the following Fair Market Values for the presented assets as of 12/31/2011:

Goodwill 10,000 Trademark 10,000

- 4. In 2010, there was a Goodwill impairment accounted for in the amount of \$3,000.
- 5. In 2008, there was a Trademark impairment of \$2,000.
- 6. Property, Plant and Equipment is depreciated over a 10-year period using the straight line depreciated method. There is no salvage value. Amortizable Intangible assets are amortized over a 5-year period using the straight line method. No salvage value is expected.
- 7. Investments include Available for Sale Securities (AFS) with a fair market value of \$10,000 as of 12/31/2011. The beginning-of-year value was \$7,000 of which \$2,000 is due to an exchange rate gain.
- 8. There are long-term contingencies of \$6,000 stemming from civil lawsuits. Legal council considers the payout slightly "more likely than not" but not highly probable.
- 9. The extraordinary loss was due to hurricane damage which is considered unusual and infrequent.
- 10. The effective tax rate for AXE is 30 percent.

REQUIRED

For each scenario above (1 to 10):

- 1. Identify the similarities and differences between the Balance Sheet effects of US GAAP and IFRS.
- 2. Record the differences above in journal entry form to satisfy IFRS rules.
- 3. Prepare an IFRS Balance Sheet for the 2011 calendar year.

SOLUTIONS

Parts 1 and 2

- 1. LIFO is not permitted under IFRS. As such, FIFO has to be used. The difference between the LIFO and FIFO Cost of Goods Sold is the difference between the beginning of the year and year-end differential in the LIFO Reserve. In this case, the difference will result in a decrease in Cost of Goods sold by virtue of a greater Inventory total under FIFO in the amount of \$ 5,000 (\$20,000 less \$15,000) (1A). Additionally, another \$15,000 additional inventory under FIFO should be recorded (1B), thus adding \$20,000 to the value of inventory (LIFO reserve amount). As such, the journal entries will be:
 - 1A Dr. Inventory 5,000 Cr. Cost of Goods Sold 5,000 - Income Statement
 - 1B Dr. Inventory 15,000 Cr. Deferred Income Tax 4,500 Cr. Retained Earnings 10,500
- 2. IFRS allows for Asset Revaluation for Property, Plant and Equipment and Intangible Assets. Both US GAAP and IFRS allow for asset impairment which is tested on an annual basis. IFRS allows for an asset reversal of impaired assets for all tangible and intangible long-term assets, excluding Goodwill. US GAAP allows for impairment, but once lowered, no reversal of impairment is allowed. In no circumstance may Property, Plant and Equipment assets or Intangible assets be written above its book value under US GAAP.

Resulting Accounting Treatment (US GAAP): The impairment loss for tangible and Intangible Assets is recorded on the income Statement and results in a lower carrying value on the Balance Sheet.

Resulting Accounting Treatment (IFRS): The loss is treated similar to US GAAP.

The write-up of tangible and intangible assets is recorded as comprehensive income - a Balance Sheet account in Shareholders' Equity, and not on the Income Statement. Finally, reversal of losses, up to the amount of the impairment, is recorded as a reduction in loss, which is a gain in the Income Statement and any excess is recorded as part of comprehensive income. Goodwill may not be reversed once impairment has occurred.

On 1/1/2011, the Property, Plant and Equipment assets were increased by \$5,000 above Book Value. For IFRS purposes, this results in an increase in the carrying value of these assets to Fair Market Value (2B) and a resulting increase of depreciation expense and Accumulated Depreciation of \$500 (\$5,000 divided by a 10-year useful life using the straight line depreciation method) (2A). The Adjusting entry then is:

- 2A Dr. Depreciation Expense 500 Income Statement Cr. Accumulated Depreciation 500
- 2B Dr. Property, Plant and Equipment 5,000 Cr. Shareholders' Equity - Surplus (Deficit) (Comprehensive Income) 5,000

The trademark had an estimated fair market value of \$10,000 as of year-end. IRFS allows the write-up of intangible assets above book value if fair market value exceeds book value. US GAAP does not allow for reversals of previously recorded impairments. Under IFRS, a previous impairment loss will be reversed to the Income Statement as a reduction/loss, which is, in effect, a gain, and any excess over that is recorded as Comprehensive Income - a Balance Sheet account in Shareholders' Equity (not on the Income Statement). The adjusting entry is:

- Dr. Trademark 5,000
 Cr. Reversal of Impairment Loss Trademark Income Statement 2,000
 Cr. Shareholders' Equity Surplus (Deficit) (Comprehensive Income) 3,000
- 3. Finally, there is no adjustment for Goodwill as both US GAAP and IFRS have similar treatment for this Intangible Asset. Also note that Trademarks and Goodwill are not amortizable Intangible Assets due to their indefinite useful life.
- 4. Available For Sale Securities (AFS)

Both US GAAP and IFRS treat AFS securities similar in that they are reported at Fair Market Value at the Balance Sheet date. Any income or loss is part of comprehensive income (not Income Statement). The only difference, however, is that IFRS treats the foreign currency exchange gain or loss as an income (loss) item, which is reported in the Income Statement.

As such, \$2,000 of the increase in the AFS value, which relates to currency gain, is part of non-operating income. As such, the adjusting entry is:

- 4A Dr. Shareholders' Equity Surplus (Deficit) (Comprehensive Income) 2,000 Cr. Currency Exchange Rate Gain - Income Statement 2,000
- 5. US GAAP and IFRS record a contingency loss when the loss is deemed to be probable. This definition of probable differs between the two groups. US GAAP defines probable as "likely", whereas IFRS defines probable as "more likely than not". The result is that IFRS is more conservative in recognizing contingency losses. In this situation, the loss is recorded for IFRS only, with a corresponding liability on the balance Sheet. US GAAP only requires disclosure in this situation. The adjusting entry, then, is:
 - 5A Dr. Contingency loss Income Statement 6,000 Cr. Contingency Liability payable 6,000
- 6. Extraordinary Items US GAAP v. IFRS

IRFS disallows extraordinary gains (losses) and, as such, is not existent. Consequently, this item needs to be part of the non-operating income (loss) schedule of the Income Statement. The gross amount of the loss, in this case, is the net of tax loss of \$10,500 divided by .7 (1 less 30 percent tax rate), resulting in a loss from hurricane – before taxes of \$15,000.

We reclassify this loss from Extraordinary to Non-operating Income (loss).

7. Income Statement Adjustment: US GAAP to IFRS conversion.

Please refer to P. Harris, L. Washington Arnold, US GAAP Conversion to IFRS: A Case Study Of The Income Statement (*Journal of Business Case Studies*, July/August 2012; Volume 8, Number 4) to see the effects and calculations of US GAAP conversion to IRFS for the Income Statement.

ADJUSTING ENTRY (7)

Dr. Income Summary 2,500 Cr. Income Tax Payable – Current 750 Cr. Retained Earnings 1,750

The difference in income between US GAAP and IFRS is 12,250-10,500, or a net income difference of 1,750. The income before tax is 2,500, or 1,770 divided by 1 less the tax rate of 30 percent (.7). The tax expense on

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this difference is 750 and also represents a current liability tax payable account. Retained Earnings is increased due to the increased net income total.

Part 3

IFRS Balance Sheet Financial Statement - US GAAP - IFRS Reconciliation Balance Sheet (in 000's) As of 12/31/2011				
ASSETS	US GAAP	ADJUSTMENTS	<u>IFRS</u>	
ASSEIS				
Current Assets				
Cash	33,000		33,000	
Accounts Receivable	25,000		25,000	
Investments (AFS)	10,000		10,000	
Inventory	50,000	(1) 20,000	70,000	
Total Current Assets	118,000		138,000	
Property, Plant and Equipment				
Assets (cost)	100,000	(2) 5,000	105,000	
Accumulated Depreciation	(30,000)	(2) (500)	(30,500)	
-	70,000		74,500	
Intangible Assets				
Trademark	5,000	(3) 5,000	10,000	
Goodwill	7,000		7,000	
	12,000		17,000	
Total Assets	200,000	29,500	229,500	
LIABILITIES AND SHAREHOL	DERS' EQUITY			
Current Liabilities				
Accounts Payable	20,000		20,000	
Accrued Expenses	15,000		15,000	
Taxes Payable-Current	5,000	(7) 750	5,750	
Total Current Liabilities	40,000	750	40,750	
Non-current Liabilities				
Bonds Payable	50,000		50,000	
Taxes Payable-Noncurrent		(1) 4,500	4,500	
Contingent Liability Payable	0	(6) 6,000	6,000	
Total Current Liabilities	<u>50,000</u>	10,500	60,500	
Total Liabilities	90,000	11,250	101,250	
SHAREHOLDERS' EQUITY				
Common Stock (\$1 Par)	50,000		50,000	
Surplus(Deficit)	0	(2)5,000 (3)3,000 (4)(2,000)	6,000	
Retained Earnings	60,000	(1) 10,500 + (7) 1,750	72,250	
Total Shareholders' Equity	110,000	18,250	128,250	
Total Liabilities and	200.000	20.500	220 500	
Shareholders' Equity	200,000	29,500	229,500	

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Balance Sheet – IFRS (in 000's) As of 12/31/2011				
ASSETS	LIABILITIES AND SHAREHOLDRERS' EQUITY			
Current Assets	Current Liabilities			
Cash	33,000	Accounts Payable	20,000	
Accounts Receivable	25,000	Accrued Expenses	15,000	
Investments (AFS)	10,000	Taxes Payable - Current	<u>5,750</u>	
Inventory	70,000	Total Current Liabilities	40,750	
Total Current Assets	138,000			
Property, Plant and Equipment		Non-current Liabilities		
Assets (cost)	105,000	Bonds Payable	50,000	
Accumulated Depreciation	(30,500)	Taxes Payable- Noncurrent	4,500	
	74,500	Contingent Liability Payable	6,000	
Intangible Assets		Total Non-current Liabilities	60,500	
Trademark	10,000	Total Liabilities	101,250	
Goodwill	7,000			
	3,000	SHAREHOLDERS' EQUITY		
		Common Stock (\$1 Par)	50,000	
Total Assets	229,500	Surplus (Deficit)	6,000	
		Retained Earnings	72,250	
		Total Shareholders' Equity	128,250	
		Total Liabilities and		
		Shareholders' Equity	229,500	

CONCLUSION

IFRS is the future of worldwide financial reporting and should be included as a major part of any accounting and/or business curriculum in the US, as well as the rest of the world. This case illustrates a situation where a Balance Sheet is prepared using US GAAP as the basis and converting to IFRS for comparison purposes. In this case study, IFRS rules are discussed and key Balance Sheet similarities and differences between US GAAP and IFRS are addressed. We will follow up with other similar case studies that focus on an IFRS-prepared Cash Flow Statement from a US GAAP-prepared Financial Statement.

AUTHOR INFORMATION

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